5. Business Rules

These business rules give technical definitions for the fields on the Key Management Indicator (KMI) report. Business rules reflect program rules and calculations performed for each report field.

5.1. Exclusions and Notes

All report fields exclude certain information, unless indicated otherwise. For example, a distribution category will include excluded information as part of a "missing category."

EXCLUSIONS:

- 1. Cases where 'type of action' is
 - Portability move-out (line 2a = 5)
 - End of participation (line 2a = 6)
 - FSS Enrollee or Exit (line 2a = 8)
- 2. Cases where the number of bedrooms (line 5c) is zero
- 3. Cases where the annual income (line 7m) greater than \$90,000
- 4. Cases where utility allowance is \$0, \$1, or greater than \$400 from the numerator and the denominator
 - Public Housing (line10d)
 - Indian Rental (line 10d)
 - Certificates (line 11m)
 - Vouchers (line12n)
 - Moderate Rehabilitation (line13i)
 - Manufactured Homeowner (line 14p)
 - Indian Mutual Help (line 15d)

NOTES:

- If you select a Public or Indian Housing program for this report, fields that are 'Section 8 only' contain zeros
- If you select a Section 8 program for this report, fields that are 'Public and Indian Housing only' contain zeros
- MTCS does not report to tenths of a percent, but reports whole percents only (e.g. 17%, not 16.8%)

5.2. General Definitions

Definitions that appear in this section are not repeated in the data field definitions. Please review this section for clarification.

Total family count

The number of families where 'type of action' is:

- New Admissions (line 2a = 1)
- Annual Reexaminations (line 2a = 2)
- Interim Reexaminations (line 2a = 3)
- Portability Move-in (line 2a = 4)
- Other Change of Unit (line 2a = 7)

Annual income

Annual income is equal to (line 7m) of Form HUD-50058.

- If (line 7m) is blank or zero, MTCS calculates it by summing items 6j and 7i. If it is still blank or zero, that case is excluded from both the numerator and denominator of all calculations unless otherwise indicated
- If (line 7m) is greater than 90,000, it is considered missing, and that case is excluded from all
 calculations

Fair market rent

The Federal Register publishes Fair Market Rent (FMR) values annually. MTCS uploads this information into a table, which it matches to geocoded family data to perform calculations.

Median income

To find the applicable median income from Census data, Public Housing uses the project number (lines 1e, 1f, 1g) to determine the metropolitan statistical area (MSA) and county (a result of geocoded address) where the project is located and the household size (line 3r).

To find the applicable median income from Census data, Section 8 Certificates, Vouchers, and Moderate Rehabilitation use state, MSA, and county (a result of geocoded address) where the unit is located and the household size (line 3r).

Rent discrepancy

Tenant rent discrepancy is the difference between the MTCS calculated rent and total tenant rent:

Full subsidy:

- ⇒ Public Housing (line 10e)
- ⇒ Certificates (line 11s)
- \Rightarrow Vouchers (line 12x)
- ⇒ Moderate Rehabilitation (line 13k)
- ⇒ Manufactured Home Owners (line 14w)

Prorated subsidy:

- ⇒ Public Housing (line 10s)
- ⇒ Certificates (line 11ak)
- ⇒ Vouchers (line 12ai)
- ⇒ Moderate Rehabilitation (line 13x)
- ⇒ Manufactured Home Owners (line 13x)

Standard number of bedrooms

For families in a Public and Indian Housing program (line 1d = P or B), the standard number of bedrooms equals:

- Total number in household (line 3r) divided by 2
- Drop the decimal

For families in a Section 8 program (line 1d = CE, VO, MC, or MR) **AND** the total number in household (line 3r) is greater than1, the standard number of bedrooms equals:

- Total number in household (line 3r) minus 2
- Divided by 2
- Round up

For all programs, if total number in household (line 3r = 1), the standard number of bedrooms is 0.

Summarization date

The process to generate MTCS reports is called summarization. The summarization schedule stores and updates data on a regular schedule. When MTCS uses the summarization date to perform calculations, it uses the first Friday of the month. All report calculations correspond with the most recent summarization date.

5.3. Business Rules

Data Field	Business Rule
FAMII	LIES REPORTED
Number of Families Reported, 12 months	 NUMBER OF: Families with an effective date of action (line 2b) in the last 12 months
Distribution by Families Reported, Last 12 Months (%)	Section Heading
Admissions	 NUMBER OF: Families with an effective date of action (line 2b) in last 12 months WHERE type of action is a new admission (line 2a = 1) DIVIDED BY: Families with an effective date of action (line 2b) in last 12 months Multiplied by 100
Reexams	 NUMBER OF: Families with an effective date of action (line 2b) in last 12 months WHERE type of action is an annual reexamination (line 2a = 2) DIVIDED BY: Number of families with an effective date of action (line 2b) in last 12 months Multiplied by 100
Interim Reexaminations	 NUMBER OF: Families with an effective date of action (line 2b) in last 12 months WHERE type of action is an interim reexamination (line 2a = 3) DIVIDED BY: Number of families with an effective date of action (line 2b) in last 12 months Multiplied by 100

Data Field	Business Rule
Portability Move-Ins	NUMBER OF:
	Families with an effective date of action (line 2b) in last
Section 8 only	12 months
	WHERE type of action is a portability move-in
	(line 2a = 4)
	DIVIDED BY:
	Families with an effective date of action (line 2b) in last
	12 months
	Multiplied by 100
Change of Unit	NUMBER OF:
5	Families with an effective date of action (line 2b) in last
	12 months
	WHERE type of action is other change of unit
	(line 2a = 7)
	DIVIDED BY:
	Number of families with an effective date of action (line)
	2b) in last 12 months
	Multiplied by 100
Families Ending Participation	NUMBER OF:
g a sapara	Families with an effective date of action (line 2b) in last
	12 months
	WHERE type of action is an end of participation
Destablish Marris Outs	(line 2a = 6)
Portability Move-Outs	NUMBER OF:
Section 8 only	• Families with an effective date of action (line 2b) in last 12 months)
	WHERE type of action is a portability move-out
	(line 2a = 5)
RENT	DISCREPANCY
Number of Families with Rent Discrepancies	NUMBER OF:
(+/-)	Families with rent discrepancy
Percent of All Families with Rent Discrepancies	NUMBER OF:
	Families with rent discrepancy
	DIVIDED BY:
	Total number of families
	Multiplied by 100

Data Field	Business Rule
Distribution by Rent Discrepancies (%)	Section Heading
\$ 6 - 10 (+/-)	NUMBER OF:
	 Families with rent discrepancy between \$6 and \$10
	inclusive, either negative or positive
	DIVIDED BY:
	Total number of families
	Multiplied by 100
\$ 11 - 25	NUMBER OF:
VIII 20	 Families with rent discrepancy between \$11 and \$25
	inclusive, either negative or positive
	and the second s
	DIVIDED BY:
	Total number of families
+ 0 (F2	Multiplied by 100
\$ 26 - 50	NUMBER OF:
	Families with rent discrepancy between \$26 and \$50 in all visits as it is a possible and a setting
	inclusive, either negative or positive
	DIVIDED BY:
	 Total number of families
	10141114111001
	Multiplied by 100
\$ 51 - 100	NUMBER OF:
	 Families with rent discrepancy between \$51 and \$100
	inclusive, either negative or positive
	DIVIDED BY
	Total number of families
	Total Harrison of furnitios
	Multiplied by 100
\$101 - 150	NUMBER OF:
	Families with rent discrepancy between \$101 and \$150
	inclusive, either negative or positive
	DIVIDED BY:
	DIVIDED BY:Total number of families
	- Total Hullipel Of Iallilles
	Multiplied by 100

Data Field	Business Rule
Over \$150	NUMBER OF:
	Families with rent discrepancy over \$150 either
	negative or positive
	DIVIDED BY:
	DIVIDED BY:Total number of families
	Total number of families
	Multiplied by 100
	ING/UNDERPAYING
Percent Overpaying (+)	NUMBER OF:
	Families with positive rent discrepancy
	DIVIDED BY:
	DIVIDED BY:Total number of families
	Total number of families
	Multiplied by 100
Average Overpayment (\$)	SUM OF:
	Positive rent discrepancy amounts
	DIVIDED BY
	Families with positive rent discrepancy
Total Overpayments (\$)	SUM OF:
	Positive rent discrepancy amounts
Percent Underpaying (-)	NUMBER OF:
	Families with negative rent discrepancy
	DIVIDED BY
	Total number of families
	1 Total Hamber of families
	Multiplied by 100
Average Underpayment (\$)	SUM OF:
	Negative rent discrepancy amounts
	DIVIDED BY:
	 Families with negative rent discrepancy
Total Underpayments (\$)	SUM OF:
	Negative rent discrepancy amounts
OTHER DISCREPANCIES	
Other Types of Discrepancies (%)	Section Heading
Admissions of Over-income Families	NUMBER OF: • Families
	 Families WHERE annual income (line 7m) exceeds 80% of the
	median income
	DIVIDED BY:
	Total number of families
	Multiplied by 100
	Ividitiphed by 100

Data Field	Business Rule
Over-housed	NUMBER OF:
	FamiliesWHERE number of bedrooms (line 5c) exceeds the
	standard number of bedrooms
	DIVIDED BY:
	Total number of families
	Multiplied by 100
Under-housed	NUMBER OF:
	• Families
	WHERE number of bedrooms (line 5c) is less than the standard number of bedrooms
	DIVIDED BY
	Total number of families
	Multiplied by 100
With Late Reexaminations	NUMBER OF:
	FamiliesWHERE summarization date minus effective date of
	action (line 2b) is greater than fifteen months
	DIVIDED BY:
	Total number of families
	Multiplied by 100
	NOTE:
	 For late reexaminations, MTCS considers only 'New Admissions' and 'Annual Re-examinations' (line 2a = 1, 2)
	MTCS uses days as the unit of measurement in the
	calculation, it assumes 30 days = 1 month, and rounds to the nearest month
Average Months Late	SUM OF:
	 Summarization date minus effective date of action (line 2b) is greater than fifteen months
	DIVIDED BY:
	Number of families that have a late reexamination
	NOTE:
	MTCS uses days as the unit of measurement in the
	calculation, it assumes 30 days = 1 month, and rounds to the nearest month
Section 8 Units with HQS Inspection	NUMBER OF:
Overdue	FamiliesWHERE summarization date minus date unit last
Section 8 only	WHERE summarization date minus date unit last inspected (line 5h) is greater than fifteen months

Data Field	Business Rule
	DIVIDED BY:Total number of families
Average Months Late	Multiplied by 100 SUM OF:
Section 8 only	 Summarization date minus date unit last inspected (line 5h) is greater than fifteen months
	DIVIDED BY:Total number of families
	 NOTE: MTCS uses days as the unit of measurement in the calculation, it assumes 30 days = 1 month, and rounds to the nearest month
UTILITY	ARRANGEMENTS
Utility Arrangements	Section Heading
Percent Families with Utility Allowance	 NUMBER OF: Families WHERE Utility allowance is greater than zero
	 ⇒ Public Housing (line10d) ⇒ Indian Rental (line 10d) ⇒ Certificates (line 11m) ⇒ Vouchers (line12n) ⇒ Moderate Rehabilitation (line13l) ⇒ Manufactured Homeowner (line 14p) ⇒ Indian Mutual Help (line 15d)
	DIVIDED BY:Total number of familiesMultiplied by 100

Data Field	Business Rule
Average Utility Allowance	SUM OF:
	Utility allowance is greater than zero
	⇒ Public Housing (line10d)
	⇒ Indian Rental (line 10d)
	⇒ Certificates (line 11m)
	⇒ Vouchers (line12n)
	⇒ Moderate Rehabilitation (line13I)
	⇒ Manufactured Homeowner (line 14p)
	⇒ Indian Mutual Help (line 15d)
	DIVIDED BY:
	Total number of families who receive utility allowance
G	ROSS RENT
Gross Rent as a Percent of FMR (% of Units)	Section Heading
Section 8 only	
Under 90% of FMR	NUMBER OF:
	• Families
Section 8 only	WHERE gross rent of unit is less than 90% of the
	applicable FMR
	Ocalification (Pers 44.4)
	⇒ Certificates (line 11n)
	⇒ Vouchers (line12q)
	AND gross rent is greater than zero
	3
	DIVIDED BY:
	Total number of families
00 1000/	Multiplied by 100
90 - 100%	NUMBER OF:
Section 8 only	• Families
	WHERE gross rent of unit is between 90% and 100% of the applicable FMR
	the applicable rivin
	⇒ Certificates (line 11n)
	⇒ Vouchers (line12q)
	DIVIDED BY:
	Total number of families
	Multiplied by 100

Data Field	Business Rule
101 - 110%	NUMBER OF:
Section 8 only	 Families WHERE gross rent of unit is between 101% and 110% of the applicable FMR
	⇒ Certificates (line 11n)⇒ Vouchers (line12q)
	DIVIDED BY:Total number of families
	Multiplied by 100
111 - 120%	NUMBER OF:
Section 8 only	 Families WHERE gross rent of unit is between 111% and 120% of the applicable FMR
	⇒ Certificates (line 11n)⇒ Vouchers (line12q)
	DIVIDED BY:Total number of families
	Multiplied by 100
Over 120%	NUMBER OF:
Section 8 only	 Families WHERE gross rent of unit is over 120% of the applicable FMR
	⇒ Certificates (line 11n)⇒ Vouchers (line12q)
	DIVIDED BY:Total number of families
	Multiplied by 100

Data Field	Business Rule
RE	NT BURDEN
Rent Burden as Percent of Family Adjusted Income (%)	Section Heading
Under 21% of Adjusted Income Section 8 only	 NUMBER OF: Families WHERE tenant rent/total family contribution is less than or equal to 20% of the adjusted monthly income (line 9d)
	⇒ Certificates (line11s)⇒ Vouchers (line12t)
	DIVIDED BY:Total families who pay tenant rent (line 10e)
	Multiplied by 100
	 EXCLUDES: Families who pay mixed family tenant rent (line 11ak and 12ai)
21 - 25% Section 8 only	 NUMBER OF: Families WHERE tenant rent/total family contribution is greater than or equal to 21% and less than or equal to 25% of the adjusted monthly income (line 9d)
	⇒ Certificates (line11s)⇒ Vouchers (line12t)
	DIVIDED BY:Total families who pay tenant rent (line 11s and 12x)
	Multiplied by 100
	EXCLUDES:Families who pay mixed family tenant rent (line 11ak and 12ai)

Data Field	Business Rule
26 - 30%	NUMBER OF:
Section 8 only	 Families WHERE tenant rent/total family contribution is greater than or equal to 26% and less than or equal to 30% of the adjusted monthly income (line 9d)
	⇒ Certificates (line11s)⇒ Vouchers (line12t)
	DIVIDED BY:Total families who pay tenant rent (line 11s and 12x)
	Multiplied by 100
	 EXCLUDES: Families who pay mixed family tenant rent (line 11ak and 12ai)
31 - 35%	NUMBER OF:
Section 8 only	 Families WHERE tenant rent/total family contribution is greater than or equal to 31% and less than or equal to 35% of the adjusted monthly income (line 9d)
	⇒ Certificates (line11s)⇒ Vouchers (line12t)
	DIVIDED BY:Total families who pay tenant rent (line 11s and 12x)
	Multiplied by 100
	EXCLUDES: • Families who pay mixed family tenant rent (line 11ak and 12ai)

Data Field	Business Rule
36 - 40%	NUMBER OF:
Section 8 only	 Families WHERE tenant rent/total family contribution is greater than or equal to 36% and less than or equal to 40% of the adjusted monthly income (line 9d)
	⇒ Certificates (line11s)⇒ Vouchers (line12t)
	DIVIDED BY:Total families who pay tenant rent (line 11s and 12x)
	Multiplied by 100
	 EXCLUDES: Families who pay mixed family tenant rent (line 11ak and 12ai)
41 - 45%	NUMBER OF:
Section 8 only	 Families WHERE tenant rent/total family contribution is greater than or equal to 41% and less than or equal to 45% of the adjusted monthly income (line 9d)
	⇒ Certificates (line11s)⇒ Vouchers (line12t)
	DIVIDED BY:Total families who pay tenant rent (line 11s and 12x)
	Multiplied by 100
	EXCLUDES: • Families who pay mixed family tenant rent (line 11ak and 12ai)

Data Field	Business Rule
46 - 50%	NUMBER OF:
10 00%	• Families
Section 8 only	WHERE tenant rent/total family contribution is greater
	than or equal to 46% and less than or equal to 50% of
	the adjusted monthly income (line 9d)
	and dajusted memany moderne (into 74)
	⇒ Certificates (line11s)
	⇒ Vouchers (line12t)
	, ,
	DIVIDED BY:
	Total families who pay tenant rent (line 11s and 12x)
	Multiplied by 100
	EXCLUDES:
	Families who pay mixed family tenant rent (line 11ak)
	and 12ai)
Over 50%	NUMBER OF:
	Families
Section 8 only	WHERE tenant rent/total family contribution is greater
	than 50% of the Adjusted Monthly Income (line 9d)
	⇒ Certificates (line11s)
	⇒ Vouchers (line12t)
	DIVIDED BY:
	Total families who pay tenant rent (line 11s and 12x)
	Total families who pay tohank fork (into 115 and 12A)
	Multiplied by 100
	EXCLUDES:
	Families who pay mixed family tenant rent (line 11ak)
	and 12ai)
CE	ILING RENT
Average Ceiling Rent	Section Heading
0 Bedrooms	SUM OF:
Dublic and Indian Heart and	Amount of ceiling rent (line 10b)
Public and Indian Housing only	WHERE there are 0 bedrooms in the unit
	(line 5c = 0)
	AND there is a ceiling rent (line 10b)
	DIVIDED BY:
	Total number of families
	WHERE there are 0 bedrooms in the unit
	(line 5c = 0)
	AND there is a ceiling rent (line 10b)

Data Field	Business Rule
1 Bedroom	SUM OF:
Public and Indian Housing only	Amount of ceiling rent (line 10b)
Fublic and indian Housing Only	WHERE there is 1 bedroom in the unit (line 5c = 1) AND there is a salling rept (line 10b)
	AND there is a ceiling rent (line 10b)
	DIVIDED BY:
	Total number of families
	• WHERE there is 1 bedroom in the unit (line 5c = 1)
0.0	AND there is a ceiling rent (line 10b)
2 Bedrooms	SUM OF:
Public and Indian Housing only	 Amount of ceiling rent (line 10b) WHERE there are 2 bedrooms in the unit
	(line 5c = 2)
	AND there is a ceiling rent (line 10b)
	DIVIDED BY
	DIVIDED BY:Total number of families
	WHERE there are 2 bedrooms in the unit
	(line 5c = 2)
	AND there is a ceiling rent (line 10b)
3 Bedrooms	SUM OF:
Public and Indian Housing only	Amount of ceiling rent (line 10b) MULTIPE the server 2 has been served.
Table and malari Housing City	• WHERE there are 3 bedrooms in the unit (line 5c = 3)
	AND there is a ceiling rent (line 10b)
	DIVIDED BY:
	 Total number of families WHERE there are 3 bedrooms in the unit
	• WHERE there are 3 bedrooms in the unit (line 5c = 3)
	AND there is a ceiling rent (line 10b)
4 Bedrooms	SUM OF:
Public and Indian Housing only	Amount of ceiling rent (line 10b)
Public and Indian Housing only	• WHERE there are 4 bedrooms in the unit (line 5c = 4)
	AND there is a ceiling rent (line 10b)
	DIVIDED BY
	Total number of families MULTIPE the second the decrease in the second till the second till the second till the second till till the second till till till till till till till til
	• WHERE there are 4 bedrooms in the unit (line 5c = 4)
	AND there is a ceiling rent (line 10b)

Data Field	Business Rule
5+ Bedrooms	SUM OF:
Public and Indian Housing only	 Amount of ceiling rent (line 10b) WHERE there are 5 or more bedrooms in the unit (line
	5c) greater than or equal to 5
	AND there is a ceiling rent (line 10b)
	DIVIDED BY
	DIVIDED BY:Total number of families
	WHERE there are 5 or more bedrooms in the unit (line
	5c) is greater than or equal to 5
	AND there is a ceiling rent (line 10b)
Percent of Units with Ceiling Rent	NUMBER OF:
Public and Indian Housing only	• Families
Public and Indian Housing only	WHERE there is a ceiling rent (line 10b)
	DIVIDED BY:
	Total number of families
	. 5.64. 1.64. 1.65. 51. 141.111.55
	Multiplied by 100
	SSED INSPECTION
Units Passed Inspection (%)	NUMBER OF:
Section 8 only	FamiliesWHERE the unit passed inspection in the last 12
	months (line 5g) is within 12 months of the effective
	date of action (line 2b)
	DIVIDED BY:
	Total number families
	Multiplied by 100
MI	NIMUM TTP
Distribution by Families Subject to Minimum TTP (%)	Section Heading
\$0	NUMBER OF:
	Families
	WHERE the minimum TTP (line 9h) is \$0
	DIVIDED BY:
	Total number of families
	Multiplied by 100

Data Field	Business Rule
\$1 - 24	 NUMBER OF: Families WHERE the minimum TTP (line 9h) is between \$1 and \$24
	DIVIDED BY:Total number of familiesMultiplied by 100
\$25	NUMBER OF: • Families • WHERE the minimum TTP (line 9h) is \$25 DIVIDED BY • Total number of families Multiplied by 100
\$26 - 49	NUMBER OF: • Families • WHERE the minimum TTP (line 9h) is between \$26 and \$49 DIVIDED BY • Total number of families Multiplied by 100

Data Field	Business Rule
\$50	NUMBER OF:
	Families
	WHERE the minimum TTP (line 9h) is \$50
	DIVIDED BY
	Total number of families
	Multiplied by 100
Average Minimum TTP	SUM OF:
, worder warmann and a second	Minimum TTP (line 9h)
	WHERE minimum TTP (line 9h) is greater than zero
	(, g
	DIVIDED BY
	Total number of families
	WHERE the minimum TTP (line 9h) is greater than zero
FSS	
Family Self Sufficiency (FSS)	Section Heading
Number of Families Currently Enrolled	NUMBER OF:
	Families
	WHERE FSS report category (line 16a) is marked as
	Enrollment Report
Percent of All Families Currently Enrolled	NUMBER OF:
	• Families
	WHERE FSS report category (line 16a) is marked as Forellment Penert.
	Enrollment Report
	DIVIDED BY
	Total number of families
	Multiplied by 100
Percent Completed Contract	Multiplied by 100
Percent Completed Contract	NUMBER OF: • Families
	WHERE FSS report category (line 16a) is marked Exit
	AND where did family complete Contract of
	Participation (line 16f1) is yes
	. artiorpation (into 1011) is yes
	DIVIDED BY
	Total number of families where FSS report category
	(line 16a) is marked Exit
	Multiplied by 100
	1

Data Field	Business Rule
Percent Left FSS Without Completion	NUMBER OF:
T Green Len 199 William Completion	• Families
	WHERE FSS report category (line 16a) is marked as
	Exit
	DIVIDED BY
	Total number of families where FSS report category is
	marked Exit
	Multiplied by 100
FAMILIES REQ	UESTING ACCESSIBILITY
Number of Families Requesting Accessibility	NUMBER OF:
Features	• Families
Dublic and Indian Housing only	WHERE the family requested accessibility features (line
Public and Indian Housing only	5e = Y)
Distribution by Families Who Received Accessibility Features (%)	Section Heading
Fully	NUMBER OF:
. any	• Families
Public and Indian Housing only	WHERE the family requested accessibility features (line
	5e = Y)
	AND fully received accessibility features
	(line 5fa = Y)
	DIVIDED BY
	Total families
	WHERE the family requested accessibility features (line)
	5e = Y)
Dest's Her	Multiplied by 100
Partially	NUMBER OF:
Public and Indian Housing only	FamiliesWHERE the family requested accessibility features (line
	5e = Y)
	AND partially received accessibility features
	(line 5fb= Y)
	DIVIDED DV
	DIVIDED BY
	 Total number of families WHERE the family requested accessibility features (line
	5e= Y)
	Multiplied by 100

Data Field	Business Rule
Not at All	NUMBER OF:
Public and Indian Housing only	 Families WHERE the family requested accessibility features (line 5e= Y) AND did not receive accessibility features (5fc = Y) DIVIDED BY Total number of families WHERE the family requested accessibility features (line 5e = Y)
	Multiplied by 100
Action Pending	NUMBER OF:
Public and Indian Housing only	 Families WHERE the family requested accessibility features (line 5e = Y) AND the request for accessibility features is pending (line 5fd = Y)
	 DIVIDED BY Total number of families WHERE the family requested accessibility features (line 5e = Y) Multiplied by 100